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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,330	03/24/2006	Janine T. Bryan	21500P	4553	
MERCK AND	590 12/19/2006 EXAMINER				
P O BOX 2000)	SALIMI, ALI REZA			
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER	
			1648		
				<u> </u>	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS		12/19/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/573,330	BRYAN ET AL.				
		Examiner	Art Unit	<u> </u>			
		A R. Salimi	1648				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet	with the correspondence ac	ddress			
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication to period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may h. eriod will apply and will expire SIX (6) Mo tatute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 2	0 November 2006.	•				
	•	This action is non-final.		•			
3)□	· —						
•—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4\⊠	Claim(s) 1-17 and 19-23 is/are pending in t	the application					
4a) Of the above claim(s) <u>9-17 and 19-23</u> is/are withdrawn from consideration.							
	Claim(s) <u>1-8</u> is/are allowed.						
· · · · · ·	6) Claim(s) is/are rejected.						
•	7) ☐ Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction ar	nd/or election requirement.					
Applicati	on Papers						
	The specification is objected to by the Exan	niner					
· —			biected to by the Examine	r.			
10)⊠ The drawing(s) filed on <u>24 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International But						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
_	e of References Cited (PTO-892)	4) Interview	v Summary (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)) Paper No	o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/24/06. 5) Notice of Informal Patent Application 6) Other:							

DETAILED ACTION

Claims 1-17, 19-23 are pending.

Raw Sequence Listing have been entered.

Submitted Information Disclosure Statement (I.D.S) is noted.

Election/Restriction

Applicant's election with traverse of Group I in Paper filed 11/20/2006 is acknowledged.

The traversal is on the ground(s) that the subject matters of Groups I, and II should be examined

together. Upon reconsideration, Applicants' argument is persuasive regarding rejoinder of

groups I-II. Hence, claims 1-8 have been rejoined.

However, regarding the Groups III-IV (9-17, 19-23) the restriction is still deemed valid

under PCT Rule 13.2. This portion of the requirement is still deemed proper and is therefore

made FINAL.

Applicants are reminded to cancel the claims to the non-elected claims. Claims 1-8 are

considered.

Oath/Declaration

The data provided by the Applicants in the Oath/Declaration is not consistent. The provisional

application 60/506,812 was filed on 09/29/2003, and not on 09/23/2003. Appropriate correction

is requested.

Subject Matter Allowable over Prior art

Claims 1-8 are deemed free of prior art, given failure of the prior art to teach or

reasonably suggest the codon optimized nucleotides of HPV-45 L1 as defined SEQ ID NO: 1.

Art Unit: 1648

The closest prior art identified is by Sette et al (WO 01/41799). Sette et al taught the polypeptide of the codon optimized HPV-45 L1 as defined under the accession number CAB44705 i.e. SEQ ID NO: 2 (see page 25). Sette et al did not, however, disclose the nucleic acid of codon modified HPV-45 L1 of SEQ ID NO: 1, and there is no teaching of expression of SEQ ID NO: 1 in yeast cell in general, or *Saccharomyces cervisiae* in particular. Secondly, teaching of Robinson Robin (US PUB NO.: US 2004/0121465 A1) broadly teaches codon-optimized polynucleotide including HPV-45, the reference, however, does not disclose SEQ ID NO: 1. To form this determination Office has relied on the holdings of: In re Deuel, 51 F.3d 1552, 1558-59, 34 USPQ2d 1210, 1215 (Fed. Cir. 1995); and In re Bell, 991 F.2d 781, 26 USPQ2d 1529 (Fed. Cir.1993).

Claims 1-8 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. R. Salimi whose telephone number is (571) 272-0909. The examiner can normally be reached on Monday-Friday from 9:00 Am to 6:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell, can be reached on (571) 272-0974. The Official fax number is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Art Unit: 1648

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. R. Salimi

12/12/2006

Edward Hand